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A 9L gliosarcoma transplantation model for studying adoptive immunotherapy into the brains of conscious rats.

Fleshner M, Watkins LR, Redd JM, Kruse CA, Bellgrau D

Department of Psychology, University of Colorado-Boulder 80309.

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A rat model for brain tumor immunotherapy is described that closely mimics the type of treatment that could be administered to humans. It involves surgical implantation of a permanent cannula in the brain, through which tumor cells and various effector cells and/or cytokines can be injected. The advantage of this system over more conventional animal surgical procedures is that conscious animals can be treated multiple times while avoiding morbidity and mortality associated with reoperative procedures. Using this system to study adoptive immunotherapy for brain tumors, we provide evidence that the 9L gliosarcoma tumor from the Fischer rat strain can be reduced or destroyed *in situ* following adoptive immunotherapy with specifically activated cytotoxic T lymphocytes.

PMID: 1344303, UI: 94199197

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